



RECEIVED
JUL 12 2002
PATENT
Customer No. 22852
Attorney Docket No. 02508.0002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
Thierry CROST et al.) Group Art Unit: 1615
Application No.: 09/937,558) Examiner: Unassigned
Filed: January 3, 2002)
For: NON-THROMBOGENIC)
SEMIPERMEABLE MEMBRANE AND)
METHOD FOR MAKING SAME)

Commissioner for Patents
Washington, DC 20231

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents are attached. With respect to the non-English language documents, Applicants submit the following remarks:

1. DE 42 40 681 C2 - An English language abstract of the disclosure of this document is submitted herewith.
2. EP 0 878 491 A2 - An English language abstract of the disclosure of this document is submitted herewith.
3. "DIALYSIS WITHOUT HEPARIN" - An English language translation is submitted herewith.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

4. "ANTICOAGULATION OF EXTRACORPOREAL CIRCULATIONS FOR DIALYSIS" - An English language translation is submitted herewith.
5. "MODIFIED COLLAGEN PREVENTS TISSUE ADHESION" - An English language translation is submitted herewith.
6. "SURFACE HEPARINISATION" - An English language translation is submitted herewith.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: July 12, 2002

By: 

Jay A. Stelacone
Reg. No. 42,168

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No.	02508.0092	Appln. No.	09/937,558
Applicant	Thierry CROST et al.		
Filing Date	January 3, 2002	Group:	1615

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
DE 42 40 681 C2	06/09/94	Germany			Abstract
EP 0 878 491 A2	11/18/98	Europe			Abstract
WO 93/05825 ✓	04/01/93	PCT			
WO 96/35954 ✓	11/14/96	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W. L. J. Hinrichs, et al. "IN VITRO EVALUATION OF HEPARINIZED CUPROPHAN HEMODIALYSIS MEMBRANES," Journal of Biomedical Materials Research, Vol. 35, pp. 443-450 (1997)
B. Urlesberger et al., ACTIVATION OF THE CLOTTING SYSTEM: HEPARIN-COATED VERSUS NON COATED SYSTEMS FOR EXTRACORPOREAL CIRCULATION, The International Journal of Artificial Organs, Vol. 20, No. 12, pp. 708-712 (1997)
C. Ronco, et al., "ALTERNATIVE TREATMENT STRATEGIES FOR ACUTE RENAL FAILURE: CONTINUOUS ARTERIOVENOUS HEMOFILTRATION WITH AN69S MEMBRANE; PROCEDURES AND EXPERIENCE," Kidney International, Vol. 33, Suppl. 24, pp. S-150-S-153 (1988)
A. K. Cheung, et al., "MODULATION OF COMPLEMENT ACTIVATION ON HEMODIALYSIS MEMBRANES BY IMMOBILIZED HEPARIN," Journal of the American Society of Nephrology, Vol. 2, No. 8, pp. 1328-1337 (1992)
M. Erdtmann, et al., "PHOTOCHEMICAL IMMOBILIZATION OF HEPARIN, DERMATAN SULPHATE, DEXTRAN SULPHATE AND ENDOTHELIAL CELL SURFACE HEPARAN SULPHATE ONTO CELLULOSE MEMBRANES FOR THE PREPARATION OF ATHROMBOGENIC AND ANTITHROMBOGENIC POLYMERS," Biomaterials, Vol. 15, No. 13, pp. 1043-1048 (1994)
C. J. Shanley, et al., "PROLONGED EXTRACORPOREAL CIRCULATION WITHOUT HEPARIN: EVALUATION OF THE MEDTRONIC MINIMAX OXYGENATOR," ASAIO Journal, 38, pp. M311-M316 (1992)

JUL 12 2002
INFORMATION DISCLOSURE CITATION

OMB No. 0651-0011

Atty. Docket No.	02508.0092	Appln. No.	09/937,558
Applicant	Thierry CROST et al.		
Filing Date	January 3, 2002	Group:	1615

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	K. Mottaghy, et al., "HEPARIN-COATED VERSUS NON-COATED SURFACES FOR EXTRACORPOREAL CIRCULATION," The International Journal of Artificial Organs, Vol. 14, No. 11, pp. 721-728 (1991)
	A. Piao, et al., "HEPARIN IMMOBILIZATION BY SURFACE AMPLIFICATION," ASAIO Journal, pp. M638-M643 (1992)
	F. Keller, et al., "RISK FACTORS OF SYSTEM CLOTTING IN HEPARIN-FREE HAEMODIALYSIS," Nephrol Dial Transplant, Vol. 5, pp. 802-807 (1990)
	H. Sperschneider, et al., "IMPACT OF MEMBRANE CHOICE AND BLOOD FLOW PATTERN ON COAGULATION AND HEPARIN REQUIREMENT -- POTENTIAL CONSEQUENCES ON LIPID CONCENTRATIONS," Nephrol Dial Transplant, Vol. 12, pp. 2638-2646 (1997)
	J. C. Bos, et al., "LOW POLYMORPHONUCLEAR CELL DEGRANULATION DURING CITRATE ANTICOAGULATION: A COMPARISON BETWEEN CITRATE AND HEPARIN DIALYSIS," Nephrol Dial Transplant, Vol. 2, pp. 1387-1393 (1997)
	J. E. Romão Jr., et al. "HAEMODIALYSIS WITHOUT ANTICOAGULANT: HAEMOSTASIS PARAMETERS, FIBRINOGEN KINETIC, AND DIALYSIS EFFICIENCY," Nephrol Dial Transplant, Vol. 12, pp. 106-110 (1997)
	F. Keller, et al., "THROMBOXANE B ₂ BLOOD LEVELS AND INCIPIENT SYSTEM CLOTTING IN HEPARIN FREE HEMODIALYSIS," ASAIO Journal, Vol. 41, pp. 173-177 (1995)
	P. M. Ambühl, et al., "PLASMA HYPERCOAGULABILITY IN HAEMODIALYSIS PATIENTS: IMPACT OF DIALYSIS AND ANTICOAGULATION," Nephrol Dial Transplant, Vol. 12, pp. 2355-2364 (1997)
	K. E. Otte, et al., "DOES THE METHOD OF HEPARINISATION INFLUENCE THE BIOCOMPATIBILITY OF DIALYSIS MEMBRANES?" Nephrol Dial Transplant, Vol. 6, pp. 62-65 (1991)
	R. Blezer, et al., "ACTIVATION OF BLOOD COAGULATION AT HEPARIN-COATED SURFACES," Journal of Biomedical Materials Research, Vol. 37, pp. 108-113 (1997)
	H. Miyama, et al., "ANTITHROMBOGENIC HEPARINIZED POLYACRYLONITRILE COPOLYMER," Journal of Biomedical Materials Research, Vol. 20, pp. 895-901 (1986)
	J. A. Summerton, et al., "IN VITRO CLOTTING TECHNIQUE FOR HEMODIALYSIS CIRCUITS," ASAIO Journal, p. 109 (1999)
	N. Gretz, et al. "HEPARIN BINDING BY HEMOPHAN MEMBRANES," Dialysis Clinic, p. 128 (date unknown)
	L. M. Robertson, et al., "MODIFICATION OF THE BLOOD COMPATIBILITY OF HEMODIALYSIS MEMBRANES," Artificial Organs, Vol. 14, Suppl. 2, p. 41 (1990)

INFORMATION DISCLOSURE CITATION

OMB No. 0657-0011

Atty. Docket No.	02508.0092	Appln. No.	09/937,558
Applicant	Thierry CROST et al.		
Filing Date	January 3, 2002	Group:	1615

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	S. Bowry, et al., "HEPARIN-FREE DIALYSIS FOLLOWING PRE-RINSING OF HEMOPHAN WITH HIGH DOSES OF HEPARIN," 31 st EDTA, Vienna, p. 167, (July 3-6, 1994)
	L. Hsu, Ph.D., "NON-THROMBOGENIC SURFACES IN EXTRACORPOREAL DEVICES," Abstracts of the IX th World Congress of ISAO/XX th Congress of ESAO, Amsterdam, p. 371 (July 4-8, 1993)
	C. Charbonnel, et al., "DIALYSIS WITHOUT HEPARIN," AFIDTN, Vol. 34, Lyons, National Session, pp. 10-11, (1994) with Translation pp. 1-5
	Dr. Ph. Morinière, "ANTICOAGULATION OF EXTRACORPOREAL CIRCULATIONS FOR DIALYSIS," pp. 1-52 (1997/1998) with Translation pp. 1-53
	"MODIFIED COLLAGEN PREVENTS TISSUE ADHESION," Industries et Techniques, No. 804, pp. 66 (May 1999) with Translation p. 1
	J. Pélassié, "SURFACE HEPARINISATION," RBM, Vol. 16(7), pp. 290-291 (1994) with Translation pp. 1-5

Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce

RECEIVED
JUL 15 2002
TECH CENTER 1800/2900

OCT 03 2002
TECHNOLOGY CENTER R3700